

Figure 1

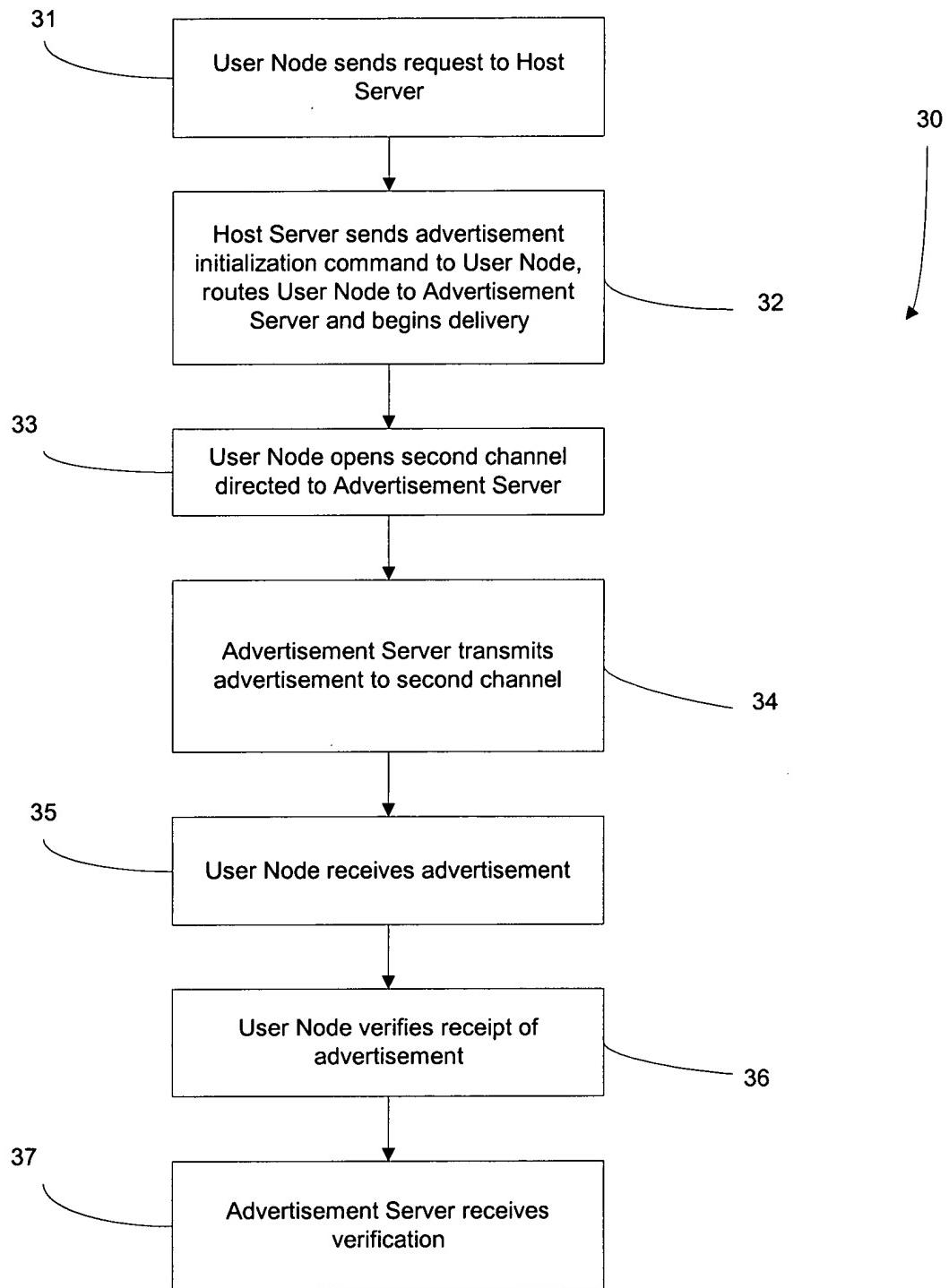
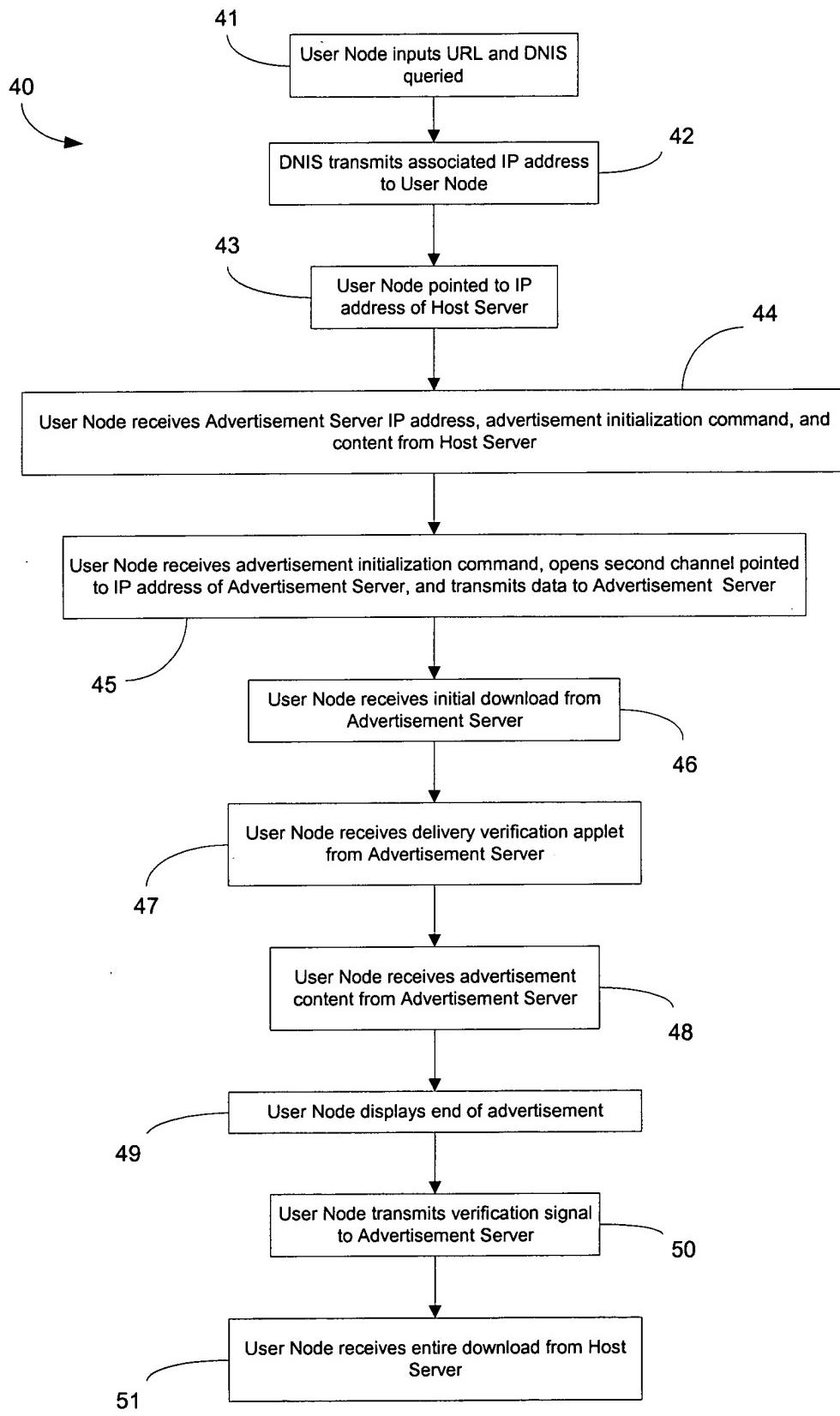


Figure 2

**Figure 3**

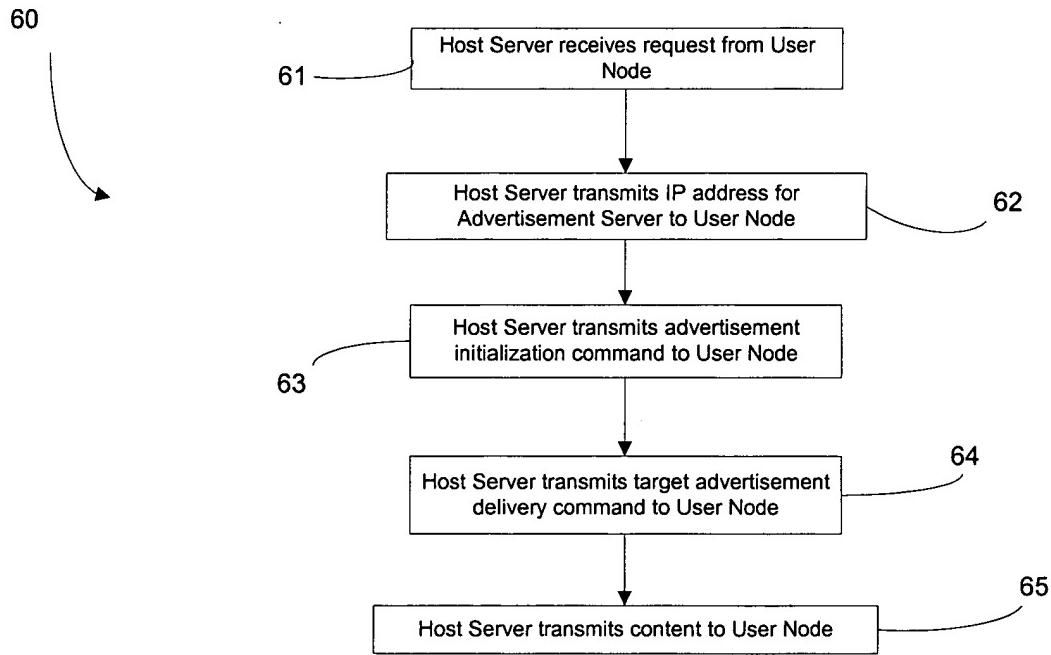


Figure 4

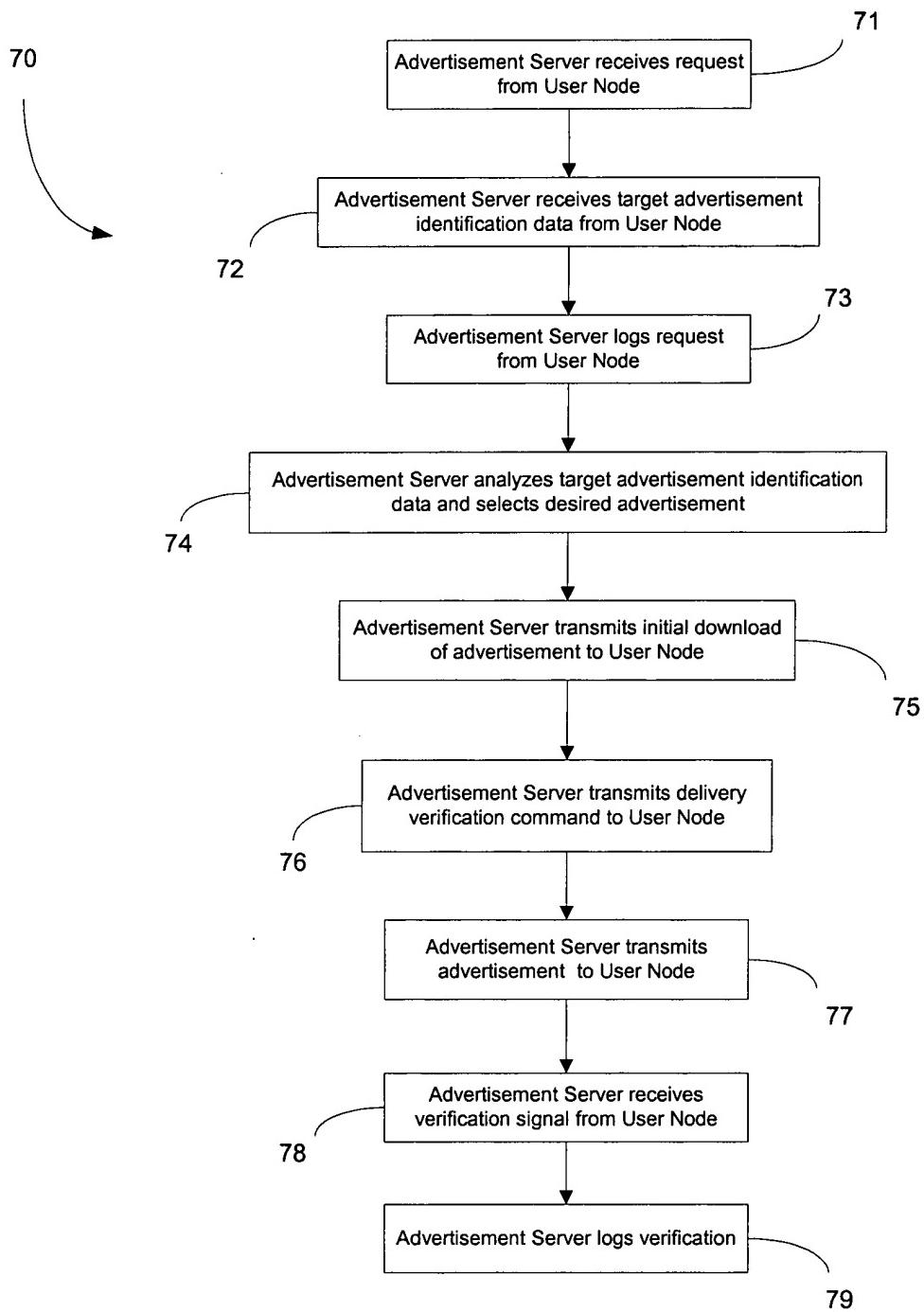


Figure 5

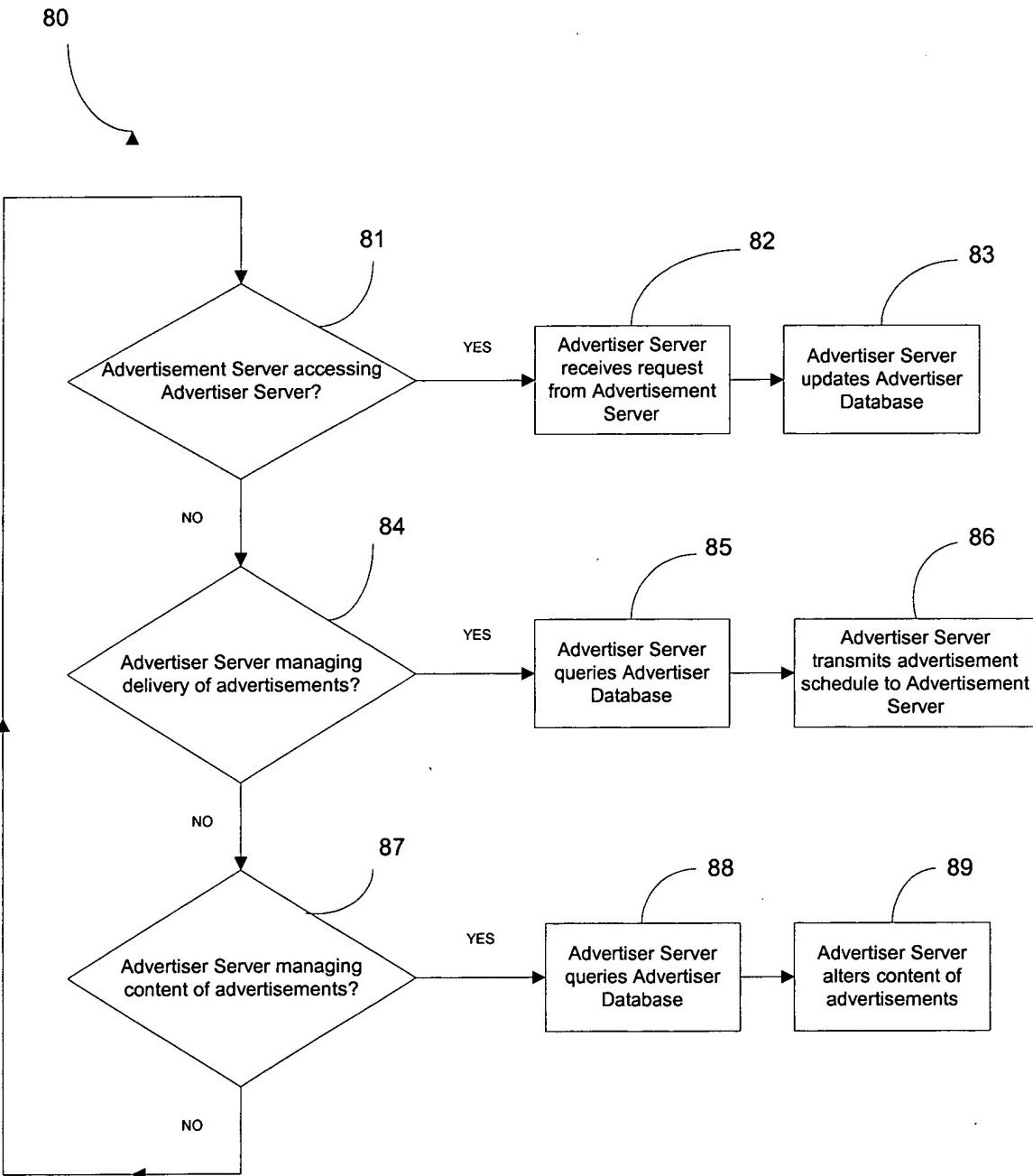
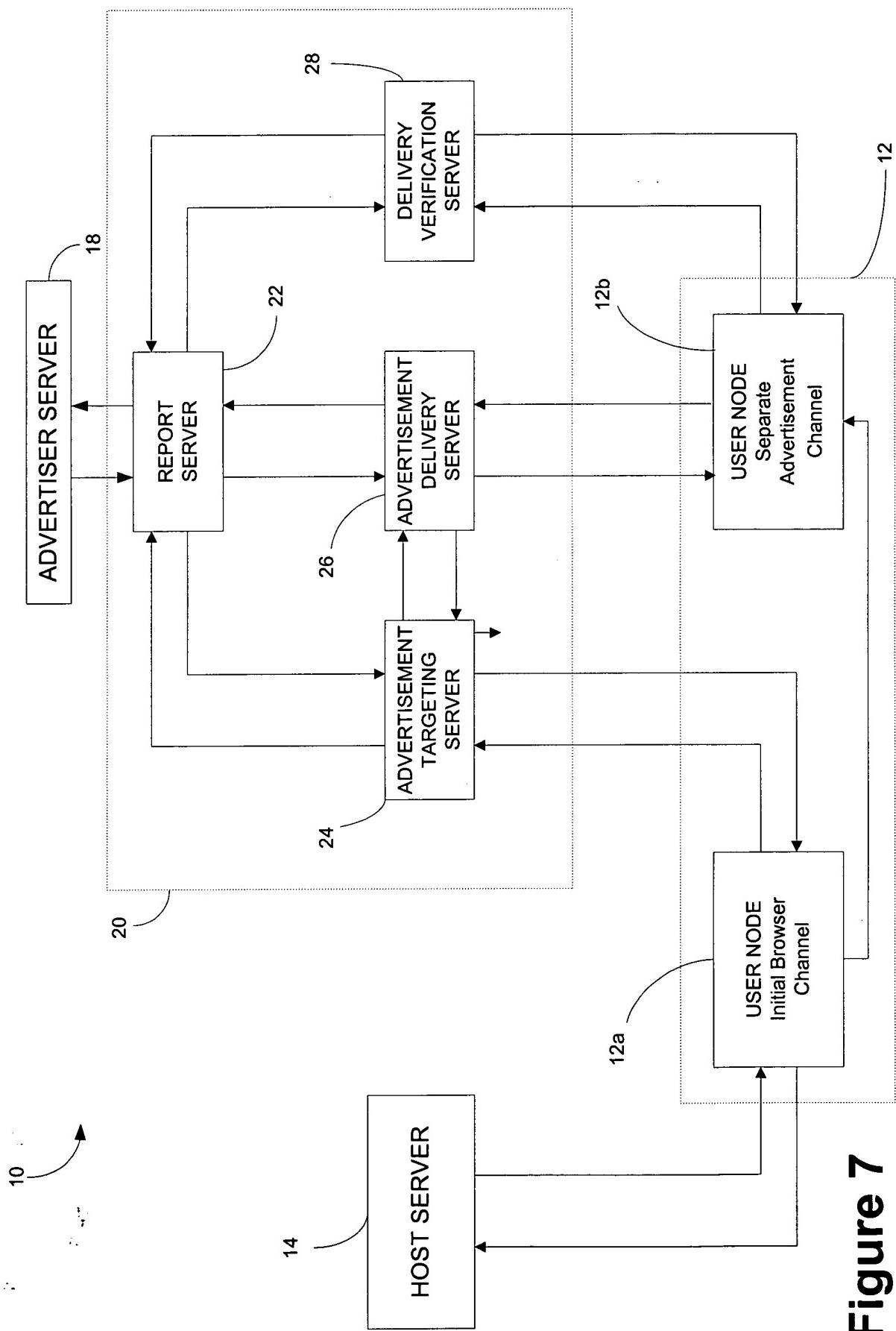
**Figure 6**

Figure 7



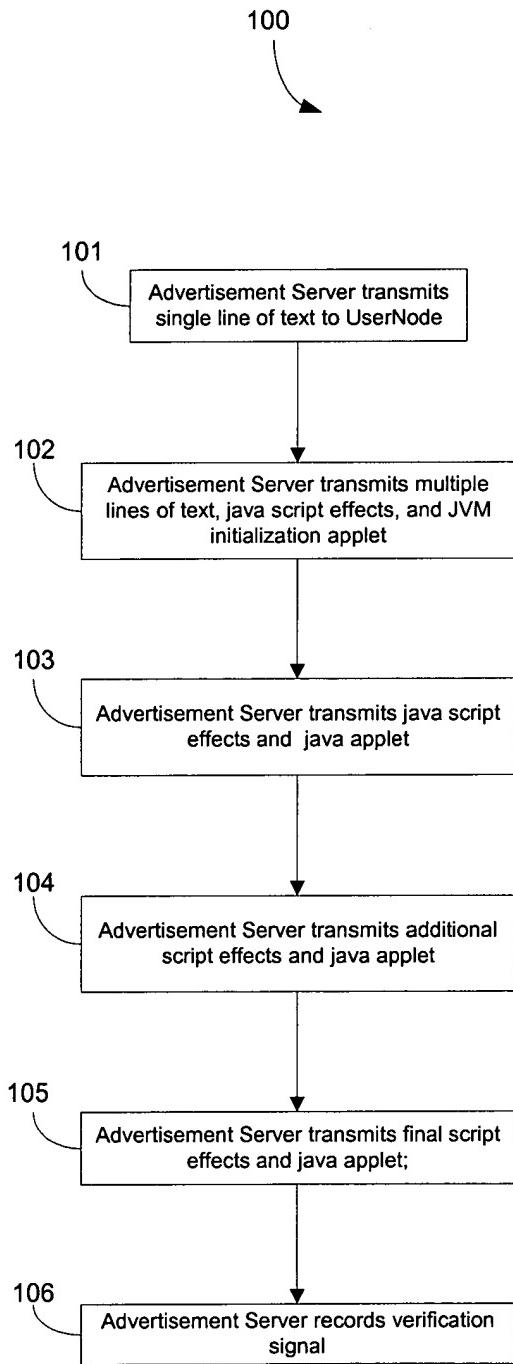


Figure 8a

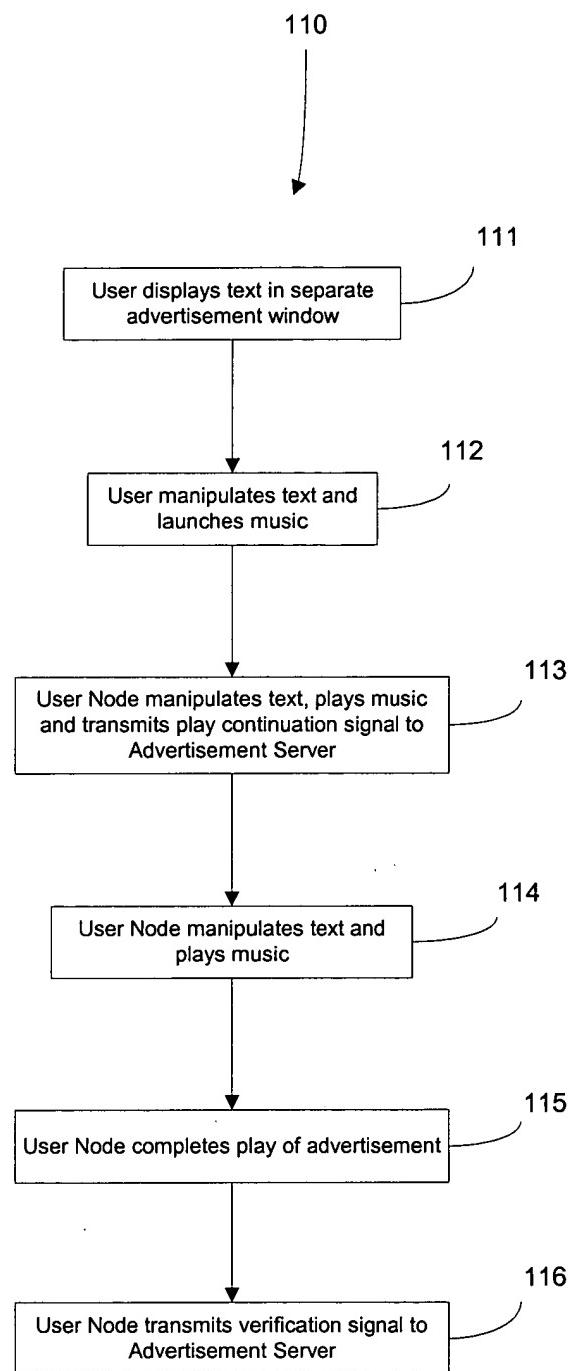


Figure 8b

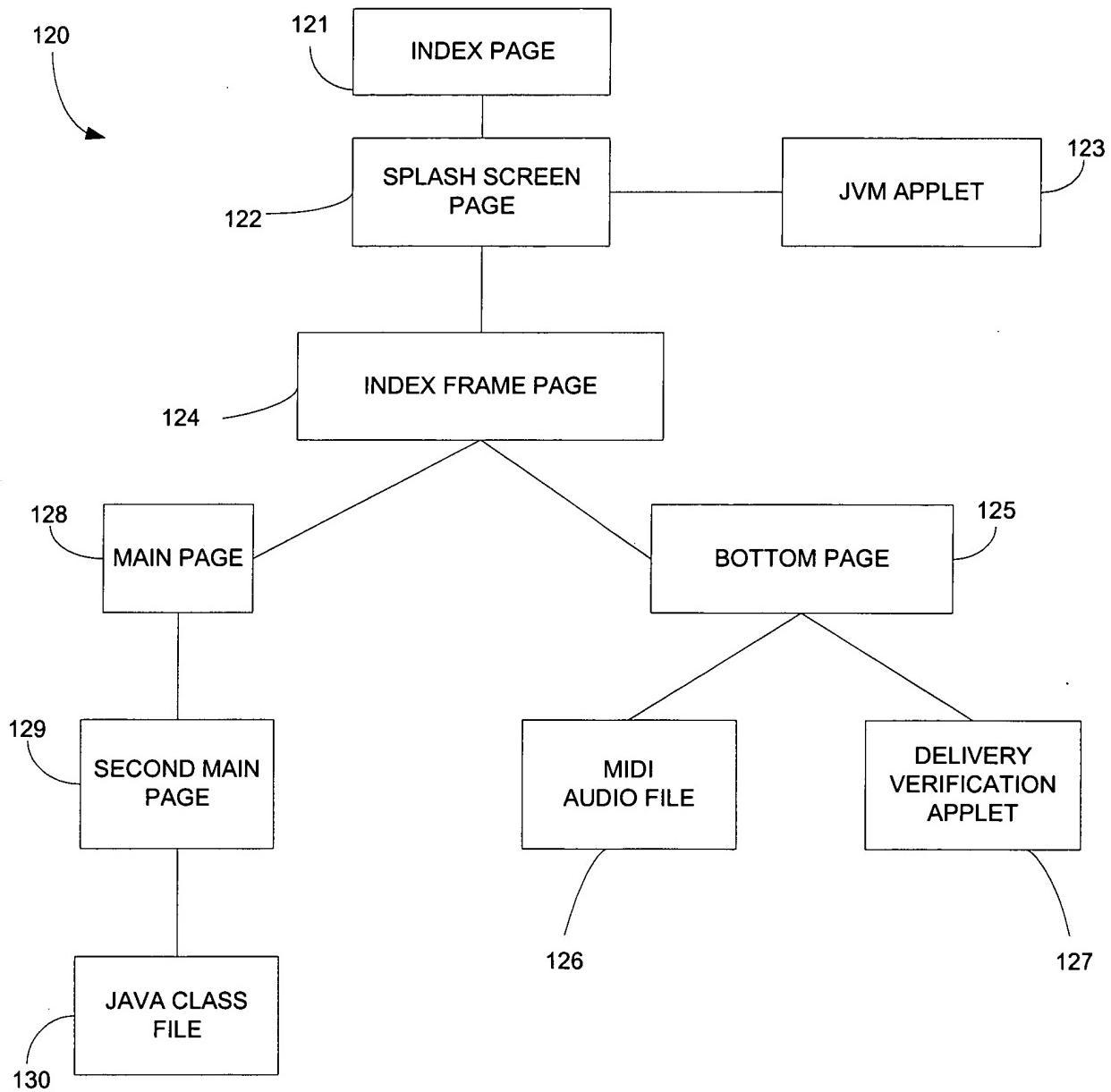


Figure 9

```
<html>
<head>
<title>Chevy</title>
<meta http-equiv="REFRESH" content="20;URL=http://www.chevy.com">
<script language="JavaScript">
<!--
function nrwmwbndw(theURL,winName,features) { //v2.0
window.open(theURL,winName,features);
}
//-->
</script>
</head>
<body bgcolor="#ffffff"
onLoad="nrwmwbndw('indexa.html','chevy','fullscreen,scrolling=no,border=0')">
<div align="center">
<p>&nbsp;</p>
<p>&nbsp;</p>
<p>The Chevrolet home page will load momentarily</p>
<p>&nbsp;</p>
</div>
</body>
</html>
```

Figure 10

```
<head>
<meta http-equiv="REFRESH" content="0;URL=indexframe.html">
<title>Chevrolet Silverado</title>
</head>
<body bgcolor="#000000">

<p>&nbsp;</p>
<p>&nbsp;</p>
<p>&nbsp;</p>

<center>
<font size="7" color="#FF6600" face="Times New Roman, Times, serif">
LIKE A ROCK
</font>

<applet code=jvm.class width=0 height=0></applet>

</center>
```

Figure 11

```
import java.applet.*;
public class jvm extends Applet {
public void init() { }
}
```

Figure 12

```
<title>Chevrolet Silverado</title>

<frameset rows="*,1" border=0>
<frame name=main src=main.html noresize>
<frame name=bottom src=bottom.html noresize>
</frameset>
```

Figure 13

```
<body bgcolor="#000000 bgsound=LIKEROK2.mid>
<embed src=likerok2.mid autostart=true width=0 height=0>
```

Figure 14

```
<meta http-equiv="REFRESH" content="2;URL=main2.html">

<body bgcolor="#000000>

<p>&nbsp;</p>
<p>&nbsp;</p>
<p>&nbsp;</p>

<center>

<b>
<font size="7" color="#FFFFFF">
CHEVY <i>TRUCKS</i></font>
</b>
</font>

</center>
```

Figure 15

```
<head>
<script>
function closeSelf() {
    parent.close();
}

function closer() {
    setTimeout('closeSelf()',35000);
}
</script>

</head>
<body bgcolor="#000000 onload="closer();">

<p>&nbsp;</p>
<br>
<center>
<applet code=template.class width=640 height=480>
</applet>
</center>
```

Figure 16

```
import java.awt.*;
import java.applet.*;

public class tlayer extends Canvas {

    String str;
    path x,y;
    path r,g,b;
    path s;
    path z;
    path spacing;
    boolean visible,visibleAtEnd;
    int steps;
    int ttype;

    FontMetrics fm;

    public tlayer(String s) {

        str = s;
        visible = true;
        visibleAtEnd = true;

        ttype=Font.PLAIN;

    } // tlayer
```

Figure 17a

```
public void steps(int steps) {  
    this.steps = steps;  
}  
  
public void position(int x1,int y1,int x2,int y2,int steps) {  
  
    x=new path(x1,x2,steps,0);  
    y=new path(y1,y2,steps,0);  
  
} // position  
  
public void font(int ttype) {  
    this.ttype=ttype;  
}  
  
public void spacing(int x1,int x2,int steps) {  
  
    spacing=new path(x1,x2,steps,0);  
  
} // spacing  
  
public void color(int r1,int g1,int b1,int r2,int g2,int b2,int steps) {  
    r=new path(r1,r2,steps,0);  
    g=new path(g1,g2,steps,0);  
    b=new path(b1,b2,steps,0);  
}  
} // color  
  
public void size(int s1,int s2,int steps) {  
    s=new path(s1,s2,steps,0);  
}  
  
public void zindex(int z1,int z2,int steps) {  
    z=new path(z1,z2,steps,0);  
}
```

Figure 17b

```
public void setVisible(boolean v,boolean vAtEnd) {
    visible = v;
    visibleAtEnd = vAtEnd;
}

public void paintOffscreen(Graphics graphics) {
    // different postions,color,sizes,and whether visible
    if(visible) {
        Color c=new Color(r.getX(),g.getX(),b.getX());
        graphics.setColor(c);

        Font f=new Font("TimesRoman",ttype,s.getX());
        graphics.setFont(f);

        FontMetrics fm=.getFontMetrics(f);

        int cx=x.getX();
        int cy=y.getX();
        for(int i=0;i<str.length();i++) {
            graphics.drawString(""+str.charAt(i),cx,cy);
            cx+=fm.charWidth(str.charAt(i))+spacing.getX();
        }
        graphics.drawString(str,x.getX(),y.getX());
        //
        System.out.println("x1 = " + x.getX() + " y1 = " + y.getX() + " for " +
c);
    } // visible
}

} // paintOffscreen
```

Figure 17c

```
public void incTimer() {  
    if(steps>0) {  
        x.incStep();  
        y.incStep();  
        r.incStep();  
        g.incStep();  
        b.incStep();  
        s.incStep();  
        z.incStep();  
        spacing.incStep();  
  
        steps--;  
  
        if(steps==0 && !visibleAtEnd)  
            visible=false;  
    }  
}  
}  
}  
}
```

Figure 17d

```
import java.awt.*;
import java.applet.*;

public class ilayer extends Canvas {

    Image im;
    path x,y;
    path sx,sy;
    path z;
    boolean visible,visibleAtEnd;
    int steps;

    public ilayer(Image im) {
        this.im=im;
        visible = true;
        visibleAtEnd = true;
    } // tlayer

    public int getX() {
        return x.getX();
    }
    public int getY() {
        return y.getX();
    }
    public int getSX() {
        return sx.getX();
    }
    public int getSY() {
        return sy.getX();
    }
}
```

Figure 18a

```
public boolean getVisible() {
    return visible;
}

public void steps(int steps) {
    this.steps = steps;
}

public void position(int x1,int y1,int x2,int y2,int steps) {
    x=new path(x1,x2,steps,0);
    y=new path(y1,y2,steps,0);

} // position

public void size(int x1,int y1,int x2,int y2,int steps) {
    sx=new path(x1,x2,steps,0);
    sy=new path(y1,y2,steps,0);

} // position

public void zindex(int z1,int z2,int steps) {
    z=new path(z1,z2,steps,0);
}

public void setVisible(boolean v,boolean vAtEnd) {
    visible = v;
    visibleAtEnd = vAtEnd;
}
```

Figure 18b

```
public void paintOffscreen(Graphics graphics) {  
    // different postions,color,sizes,and whether visible  
    if(visible) {  
        graphics.drawImage(im,x.getX(),y.getX(),sx.getX(),sy.getX(),this);  
        // System.out.println("x1 = " + x.getX() + " y1 = " + y.getX());  
    } // visible  
}  
}  
  
public void incTimer() {  
    if(steps>0) {  
        x.incStep();  
        y.incStep();  
        sx.incStep();  
        sy.incStep();  
  
        z.incStep();  
  
        steps--;  
  
        if(steps==0 && !visibleAtEnd)  
            visible=false;  
    }  
}  
}  
}  
}
```

Figure 18c

```
public class path {  
  
    double x1,x2;  
    double xstep;  
    int eq,steps;  
  
    public path(double x1,double x2,int steps,int eq) {  
  
        this.x1=x1;  
        this.x2=x2;  
  
        this.steps=steps;  
        this.eq=eq;  
  
        xstep=(x2-x1)/(double) steps;  
        // System.out.println("**** init x1 = " + x1 + " x2 = " + x2 + " step = " + xstep);  
  
    } // path constructor  
  
    public void incStep() {  
  
        x1=x1+xstep;  
  
    } // incStep  
  
    public int getX() {  
        return (int) x1;  
    }  
  
} // path class
```

Figure 19

```
/*
 Java DVT Client --> connecting to --> Multi-threaded DVT C Server

*/

import java.awt.*;
import java.io.*;
import java.net.*;
import java.lang.*;
import java.applet.*;

public class dvtclient extends Applet implements Runnable {

    Socket clientSocket=null;
    DataInputStream dis=null;
    OutputStream os=null;
    String host;
    int port;
    int delay;
    boolean isRunning=true;
    int messages=0;

    Thread threadRef=null;

    public void init() {

        System.out.println("starting constructor");
        host="38.202.155.30";
        port=2048;
        delay=1000;

        System.out.println("Done with constructor");

        // create socket communications
        System.out.println("Attempting to connect to port "+host+":"+port+"\n");
    }
}
```

Figure 20a

```
try {  
    clientSocket=new Socket(host,port);  
}catch(Exception makingsocket) {  
    System.out.println("Error connecting to " + host + " at port " + port);  
    return;  
}  
  
System.out.println("Made Connection...");  
  
try {  
    dis=new DataInputStream(clientSocket.getInputStream());  
    os=clientSocket.getOutputStream();  
  
}catch(UnknownHostException e) {  
    System.out.println("Unknown Host exception getting socket streams!!!!");  
}catch(IOException e) {  
    System.out.println("IO exception getting socket streams!!!!");  
}  
  
System.out.println("Made input/output connections");  
  
threadRef = new Thread(this);  
threadRef.start();  
  
} // constructor
```

Figure 20b

```
public synchronized void start() {  
  
    if(threadRef==null) {  
        System.out.println("Null threadRef in start()");  
        threadRef = new Thread(this);  
        threadRef.start();  
    }  
  
} // start  
  
  
public void stop() {  
  
    System.out.println("Stopping...");  
    if(threadRef!=null) {  
  
        threadRef.stop();  
  
        threadRef=null;  
    }  
} // stop  
  
  
public void destroy() {  
  
    System.out.println("Destroying...");  
    if(threadRef!=null) {  
  
        threadRef.stop();  
  
        threadRef=null;  
    }  
} // destroy
```

Figure 20c

```
public void run() {  
  
    System.out.println("Starting run.. ");  
    while(isRunning && messages<3) {  
  
        SendAndReceive();  
        messages++;  
        System.out.println("Going to sleep for 1 second");  
        try {  
            threadRef.sleep(delay);  
        } catch(Exception e) {  
            System.out.println("Error in sleep");  
        }  
    } // while isrunning  
  
    try {  
        System.out.println("Closing socket...");  
        clientSocket.close();  
        stop();  
        destroy();  
    } catch(Exception e) {  
        System.out.println("Error Closing socket");  
    }  
  
} // run
```

```
void SendAndReceive() {  
  
    byte bbuf[]=new byte[256];  
    String str;  
  
    try {  
        .....
```

Figure 20d

```
System.out.println("command being sent.");
str="message "+messages;
for(int i=0;i<str.length();i++)
    bbuf[i]=(byte) str.charAt(i);
bbuf[str.length()]='\0';
os.write(bbuf,0,str.length());
os.flush();
System.out.println("Command written to server");

// read string back
str= dis.readLine();

System.out.println("Got: " + str);

if(str.length()==0) {
    System.out.println("ERROR receiving from " + host + ":" + port);
    clientSocket.close();
    return;
}

}catch(Exception e) {
    System.out.println("Exception during send/receive");
}

} // SendAndReceive

} // dvtclient
```

Figure 20e

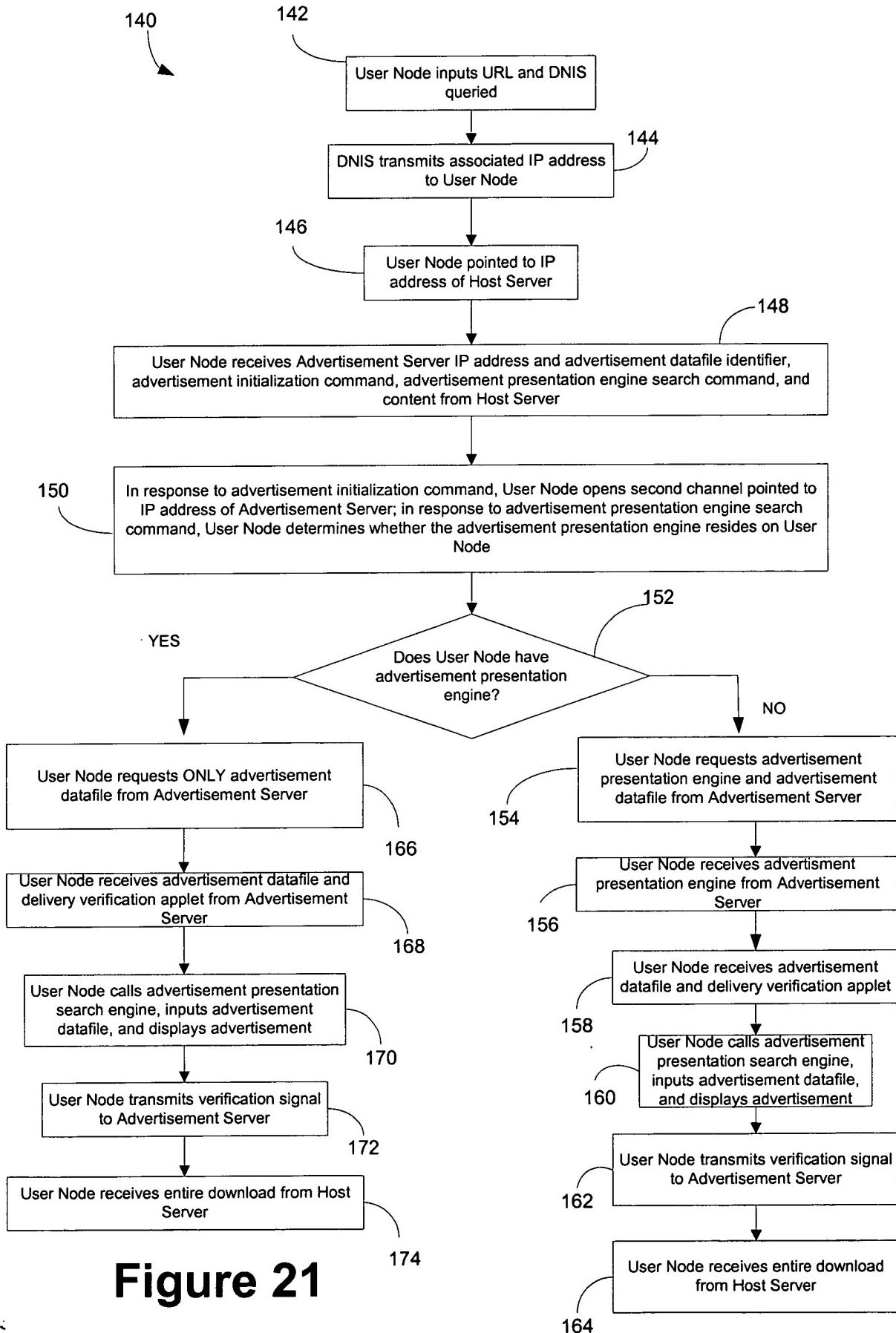


Figure 21

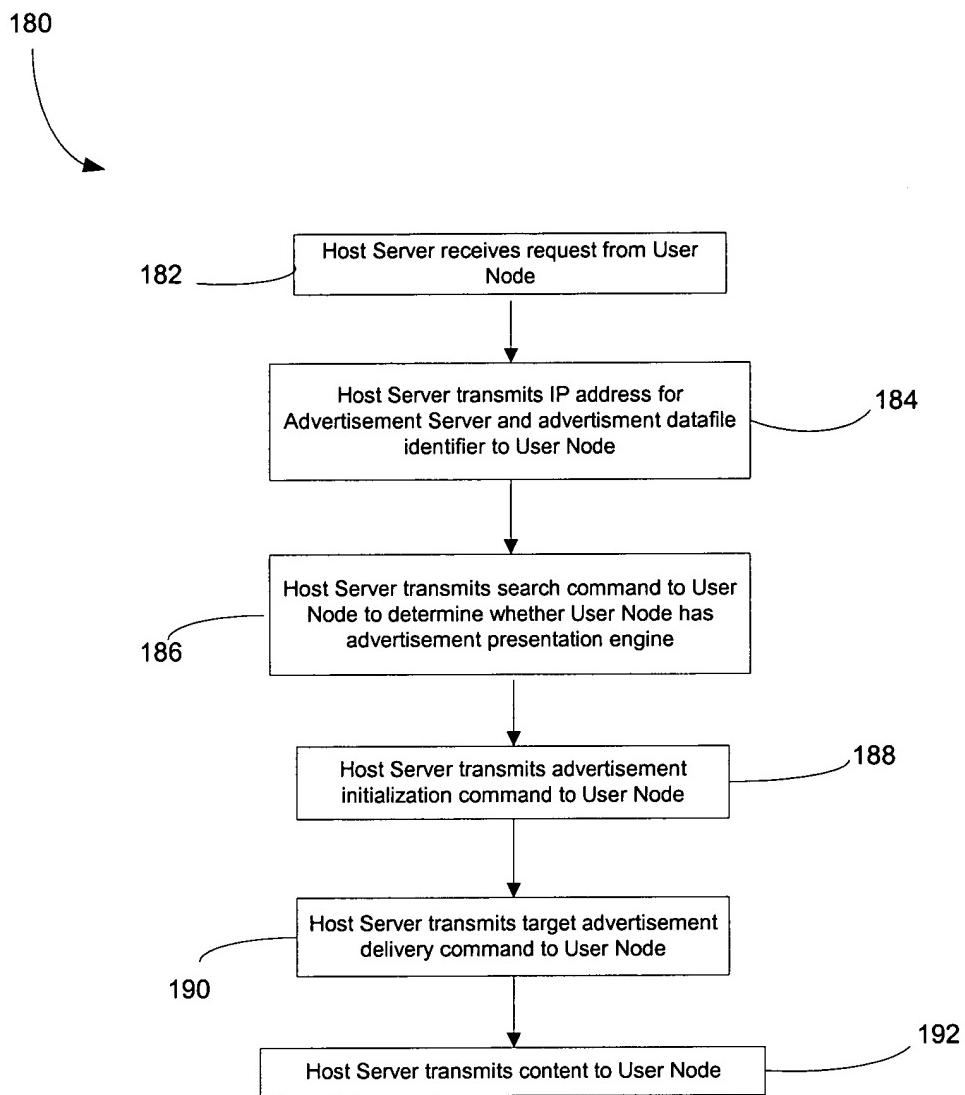


Figure 22

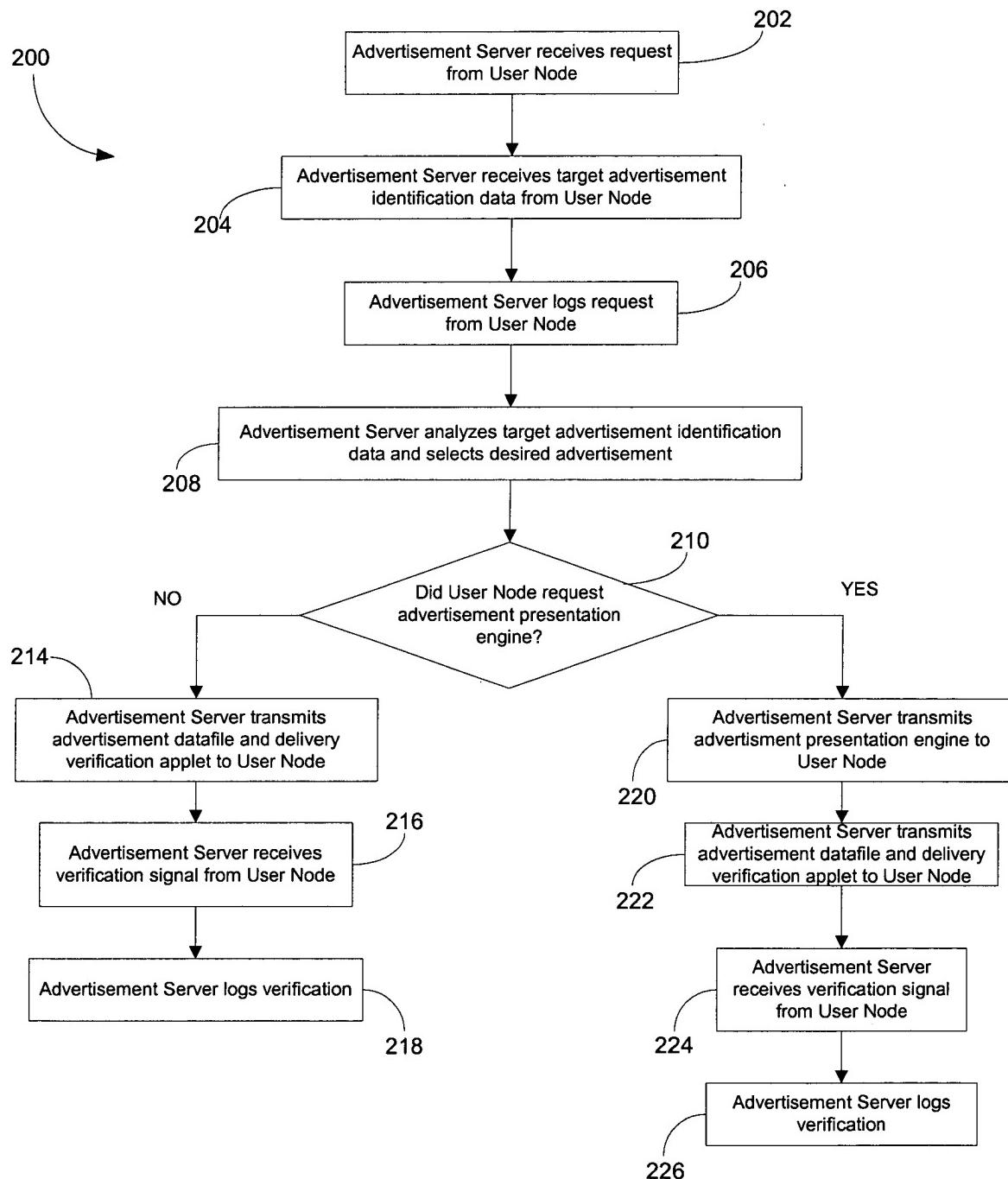


Figure 23

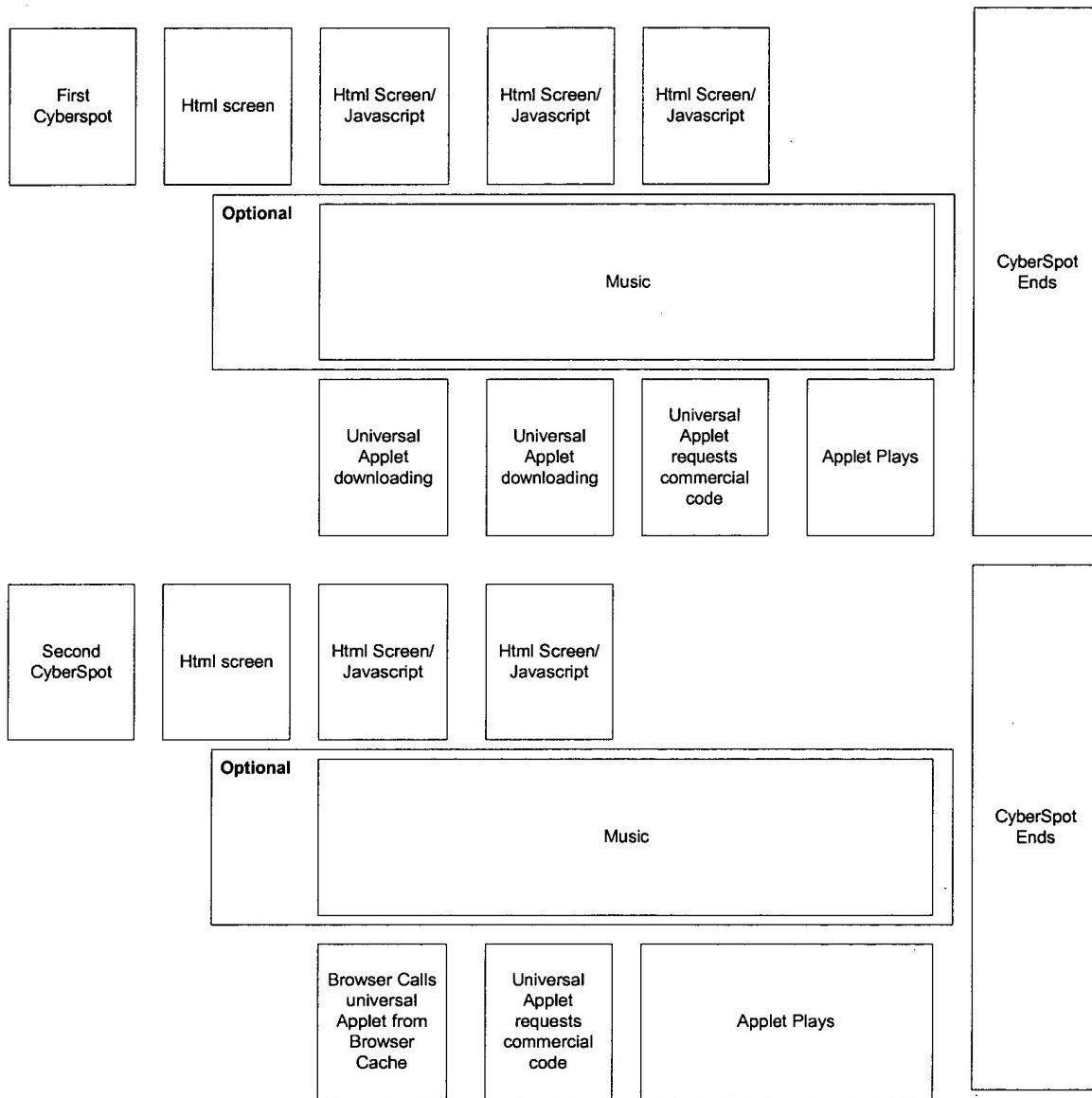


Figure 24(a)

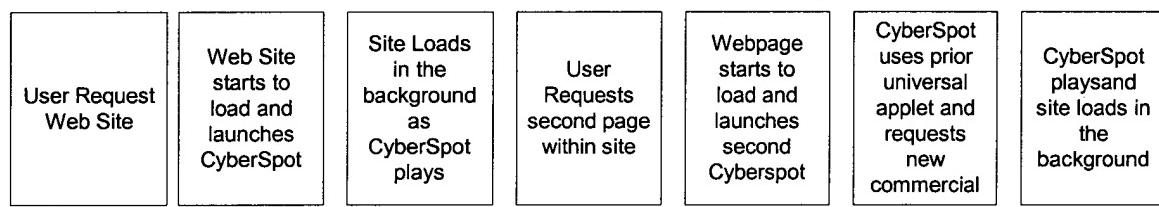


Figure 24(b)

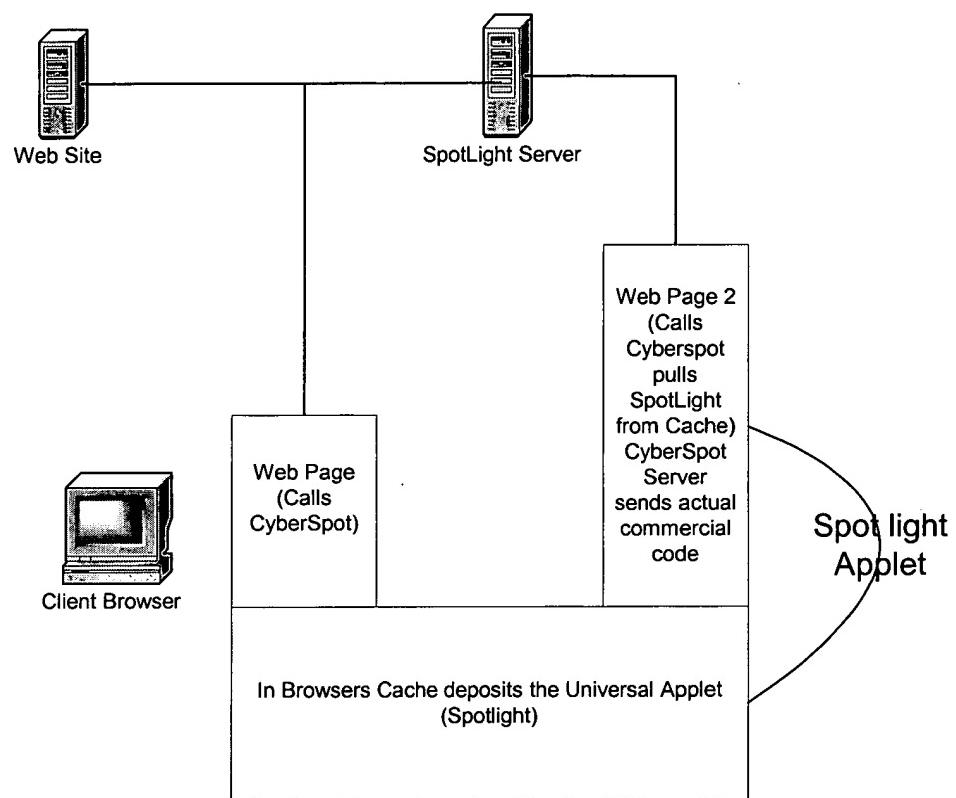


Figure 25